Bruhat Bangalore Mahanagara Palike

Excecutive Engineer Road Infrastructure Yelahanka Division

Project Cost: 100.00Lakhs

Name of Work: Improvements to Roads and drains of Sahakaranagar Main Road and surrounding areas in ward no. 08 Kodigehalli

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33 of PWD BCSR 2018-19)								
	Bottom slab								
	Sahakaranagar								
	Ward office Rd	2	270.00	1.50		810.00			
	5th A main	2	400.00	1.50		1200.00			
	12th main	2	358.00	1.50		1074.00			
	21st cross	2	188.00	1.50		564.00			
						3648.00			
	consider 40%					1459.20			
	Deduct 15% missing/damaged					218.88			
						1240.32			
						1240.32	Sqm	111.30	138047.62
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (P.No-143 &136 ,I No-19.1&17.4& 17.1 of PWD BCSR 2018-19) 6km lead= 57+2.0x1.28x6 =72.36 including the cost of loading and unloading, disposal using private vehicle and lead off of 6km								
	Desilt								
	Sahakaranagar								
	Ward office Rd	2	270.00	0.40	0.25	54.00			
	5th A main	2	400.00	0.40	0.25	80.00			
	12th main	2	358.00	0.40	0.25	71.60			
	21st cross	2	188.00	0.40	0.25	37.60			
						243.20	Cum	214.50	52,166.79
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (P.No-27,I No-5.31.1) 7.5cm thick								
	frm item No-1 top slabs		218.88			218.88			
						218.88	Sqm	742.00	162408.96
4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	RCC Drain								
	SLV Rice traders Rd								
	Road rectification	2	152.00	1.00	0.100	30.40			
		2	25.00	1.00	0.100	5.00			
						35.40	Cum	5421.90	191935.26

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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	RCC Drain								
	SLV Rice traders Rd Raft								
	Road rectification								
		2	152.00	0.90	0.150	41.04			
		2	25.00	0.90	0.150	6.75			
	SLV Rice traders Rd Wall								
	Road rectification								
		4	152.00	0.20	0.400	48.64			
		4	25.00	0.20	0.400	8.00			
						104.43	Cum	7070.20	738340.9
6	KSRB 4.9.2 Providing T M T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specificatio (I No-28.8.2 P No-229)								
	For Drain, 50kg/cum	104.43	50.00			5.22			546
						5.22	Tn	72326.98	377655.3
7	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in charge. (Data Rate) Approved								
	SLV Rice traders Rd Raft								
	Road rectification	2	152.00	0.90		273.60			
		2	25.00	0.90		45.00			
						318.60	**Sqm**	**3640.00**	**1159704.00**
8	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No-272 ,I No-37.66)								
	Sahakaranagar								
	Ward office Rd	2	30.00			60.00			
						60.00	**m**	**1145.86**	**68,751.60**
9	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 6.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 6km lead= (I No-19.14,P No-143 of PWD BCSR 2018-19) , 5km lead= 2.0x1.28x5 =12.8 , including the cost of loading and unloading, disposal using private vehicle and lead off of 6km Allowed								
	RCC Drain								
	SLV Rice traders Rd								
	Road rectification	2	152.00	1.00	0.300	91.20			
		2	25.00	1.00	0.300	15.00			
	Road Work								
	Bad reaches								

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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Sahakaranagar								
	Ward office Rd								
	5th main	2	100.00	1.50	0.150	45.00			
		1	180.00	1.20	0.150	32.40			
10	KSRRB 300-50 Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by mechanical means attached with scarifier without disturbing the base and stacking the debris 19.56,P No 146 of PWD BCSR 2018-19)					183.60	Cum	57.03	10,470.34
	SLV Rice traders Rd								
	Road rectification	1	156.00	4.60		717.60			
						717.60	Sqm	41.34	29,665.58
11	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.(I No-20.6,P No-153 of PWD BCSR 2018-19)								
	Edge widening								
	Sahakaranagar								
	Ward office Rd	2	100.00	1.50	0.150	45.00			
	5th A main	1	180.00	1.20	0.150	32.40			
	23rd A cross junction	2	40.00	2.00	0.150	24.00			
	21st cross	1	188.00	2.50	0.150	70.50			
						171.90	Cum	1855.00	318874.50
12	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18 of PWD BCSR 2018-19)								
	Edge widening								
	Sahakaranagar								
	Ward office Rd	2	100.00	1.50	0.200	60.00			
	5th A main	1	180.00	1.50	0.200	54.00			
	23rd A cross junction	2	40.00	2.00	0.200	32.00			
	21st cross	1	188.00	2.50	0.200	94.00			
	SLV Rice traders Rd								
	Road rectification	1	156.00	4.60	0.300	215.28			
						455.28	Cum	2001.28	911142.76
13	KSRRB M 500-6, Providing and applying **primer coat** with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PWD BCSR 2018-19) issue rate Dated 01-01-2019								
	Edge widening								
	Sahakaranagar								
	Ward office Rd	2	100.00	1.50		300.00			
	5th A main	1	180.00	1.50		270.00			
	23rd A cross junction	2	40.00	2.00		160.00			
	21st cross	2	188.00	2.50		940.00			

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	Description of items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Rice traders Rd								
	Road rectification	1	156.00	4.60		717.60			
						2387.60	Sqm	29.68	70,863.97
14	KSRRB 500-2 Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. (P.No-158,I No-21.2 of PWD BCSR 2018-19)								
	Sahakaranagar								
	Ward office Rd	1	270.00	8.80		2376.00			
	5th A main	1	400.00	9.00		3600.00			
	23rd A cross junction	1	80.00	5.50		440.00			
	21st cross	1	188.00	7.00		1316.00			
	SLV Rice traders Rd								
	Road rectification	1	156.00	4.60		717.60			
	Deduct primer coat area					-2387.60			
						6062.00	Sqm	5.30	32,128.60
15	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-158,I No-21.7 of PWD BCSR 2018-19) issue rate Dated 01-01-2019								
	For BC								
	Sahakaranagar								
	Ward office Rd	1	270.00	8.80		2376.00			
	5th A main	1	400.00	9.00		3600.00			
	23rd A cross junction	1	80.00	5.50		440.00			
	21st cross	1	188.00	7.00		1316.00			
	SLV Rice traders Rd								
		1	50.00	6.00		300.00			
	Road rectification	1	156.00	4.60		717.60			
		1	25.00	4.60		115.00			
						8864.60	Sqm	12.72	112757.71
16	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6 of PWD BCSR 2018-19) issue rate Dated 01-01-2019								
	Sahakaranagar								
	Profile correction								
	Ward office Rd	1	270.00	2.00	0.05	27.00			
	5th A main	1	400.00	2.00	0.05	40.00			
	23rd A cross junction	1	80.00	1.80	0.05	7.20			
	21st cross	1	188.00	2.50	0.05	23.50			
	SLV Rice traders Rd								
		1	50.00	6.00	0.05	15.00			
	Road rectification	1	156.00	4.60	0.05	35.88			
		1	25.00	4.60	0.05	5.75			

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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
17	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PWD BCSR 2018-19) issue rate Dated 01-01-2019					154.33	Cum	6858.20	1058426.01
	Sahakaranagar								
	Ward office Rd								
	5th A main	1	270.00	8.80	0.04	95.04			
	23rd A cross junction	1	400.00	9.00	0.04	144.00			
	21st cross	1	80.00	5.50	0.04	17.60			
	SLV Rice traders Rd	1	188.00	7.00	0.04	52.64			
	Road rectification	1	50.00	6.00	0.03	9.00			
		1	156.00	4.60	0.03	21.53			
		1	25.00	4.60	0.03	3.45			19.49
18	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182, I No-24.15 of PWD BCSR 2018-19)					343.26	Cum	8049.64	2763103.33
	Sahakaranagar								
	Ward office Rd	2.5	270.00	0.10		67.50			
	5th A main	2.5	400.00	0.10		100.00			
	23rd A cross junction	2.5	80.00	0.10		20.00			
	21st cross	2.5	188.00	0.10		47.00			
	SLV Rice traders Rd								
		2	50.00	0.10		10.00			
	Road rectification	2	156.00	0.10		31.20			
		2	25.00	0.10		5.00			
						280.70	Sqm	454.74	127645.52
19	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.(P.No-187, I No-24.41 of PWD BCSR 2018-19)								
	For Every 8.0mtr								
	Sahakaranagar	3	110			330.00			
						330.00	Nos	357.22	117882.60

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
							Total Construction Cost	8441971.45
							4% KRIDL Charges	337678.86
							Sub Total 1	8779650.31
							12% GST for Sub total 1	1053558.04
							Towards DPR & PMC Cost Including GST	166000.00
							Sub Total 2	9999208.35
							Utility Shifting,Miscellaneous and Rounding off	791.65
							GRAND TOTAL	10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 01-01-2019 and Data Rates

Assistant Engineer
RI,Yelahanka Division
BBMP Bangalore

Asst. Executive Engineer,
RI,Yelahanka Division
BBMP Bangalore

Executive Engineer,
RI,Yelahanka Division
BBMP Bangalore

Administrative sanction for Rs. 1,00,00,000/-
(Rs. One Crore only)
is accorded under 2019-20 BBMP Grant P-2902, ESCROW Account works Sl No-118, 008-20-000034
Registered as C.E. No. AS/167/2019-20 Subject to conditions enclosed in memo.
No. AS/167/2019-20 Dt. 23/10/2019
AE/JE 23/10/2019 CE (RI)

Technically sanctioned for Rs. 1,00,00,000/-
Rs. One Crore only
under 2019-20 BBMP Grant P-2902 ESCROW Account works Sl No-118 008-20-000034
Registered as C.E. No. TS/124/2019-20 Subject to conditions enclosed in memo.
No. TS/124/2019-20 Dt. 23/10/2019
AE/JE 23/10/2019 CE (RI)

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